

Abstract

[0045] A constant velocity joint with an outer part having innerly a normal range, an extended range, and a plurality of outer bores circumferentially spaced between a plurality of longitudinally extending tracks, Each track having a bottom spaced between two oppositely disposed sidetracks. An inner part is disposed within said outer joint part, having a plurality of sides circumferentially spaced between a plurality of trunions, each trunion having a top and an inner race. Also, a plurality of rollers each having an inner bore are mounted on said inner race of each trunion, whereby angular and axial displacement occur between the inner joint and the outer joint. Wherein at least one energy absorption surfaces is located in the extended range on the outer part. The energy absorption surface interferes with at least one of the rollers when the joint is operated beyond said normal range.